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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Sujata Banerjee et al.

Confirmation No.: 4733

Serial No.: 10/797,200

Examiner: Hua Fan

Filed: March 11, 2004

Group Art Unit: 4134

Title: RECONFIGURING A MULTICAST TREE

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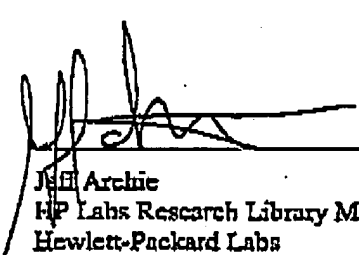
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EXHIBIT 1
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BASICReceiver Initiated Just-In-Time Adaptation for Rich Media Distribution
/ Xu, Zhichen; Tang, Chunqiang; Wang, Zhiheng; Banerjee, Sujata; Lee,
Sung-Ju

HPL-2002-314(R.1) copy:1 id:107376-1001

CONTROL

Title Info

title control #:	a107376	no. of volumes:	1
record format:	TECHPUBS		
created by:	RINALDTP	date created:	2/26/2003
date cataloged:	3/21/2003		
last modified by:	ADMIN	date modified:	8/20/2007

BIBLIOGRAPHIC INFO

Report Title	:TITL	Receiver Initiated Just-In-Time Adaptation for Rich Media Distribution
Report Author(s)	:AUTH	Xu, Zhichen; Tang, Chunqiang; Wang, Zhiheng; Banerjee, Sujata; Lee, Sung-Ju
Report Keyword(s)	:DESC	streaming media; overlay network; multicast
Number of Pages	:PAGE	5
Abstract	:ABS	Application-level multicast networks overlaid over unicast IP networks are increasingly gaining in importance. While there have been several proposals for overlay multicast networks, very few of them focus on the stringent requirements of real-time applications such as streaming media. We propose an efficient overlay application layer multicast infrastructure for multimedia real-time applications based on a combination of landmark clustering and RTT measurements. Our goal is to balance the network-oriented goals of building an efficient multicast tree with the application-oriented goals of providing good QoS with minimal disruptions. Using accurate global soft state information tables, our approach promptly

EXHIBIT 1
(2 of 3)

constructs and reconfigures high quality trees. A distinguished feature of our approach is that the tree reconfiguration is initiated just-in-time by the application client at the receiver when the media quality falls below a specific threshold. The goal is to achieve dynamic tree reconfiguration with very low switching delay such that end users do not perceive any application performance degradation.

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